Furman University.

GREENVILLE, S. C.

1860–61

A

CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

The Furman University,

FOR

1860-'61.

CHARLESTON:

STEAM-POWER PRESSES OF EVANS & COGSWELL
No. 3 Broad and 103 East Bay Streets.

1861.

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A. J. LAWTON,
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HON. J. B. O'NEALL, L.L.D.	REV. J. O. B. DARGAN,
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1860-61

Members of the Faculty,

AND OTHER OFFICERS OF INSTRUCTION AND GOVERNMENT.

JAMES C. FURMAN, D. D.,

President.

COLLEGIATE DEPARTMENT.

P. C. EDWARDS,

Professor of Ancient Languages and Literature.

C. H. JUDSON,

Professor of Mathematics, Mechanical and Experimental Philosophy and Astronomy.

J. F. LANNEAU,

Adjunct Professor of Natural Philosophy and Chemistry.

J. C. FURMAN,

Professor of Intellectual and Moral Philosophy, Logic and Rhetoric.

PREPARATORY DEPARTMENT.

E. H. GRAHAM,

Tutor in Mathematics.

J. F. DARGAN,

Tutor in Ancient Languages.

RBR
Nol

Catalogue of the Furman University

Catalogue of Students.

NAMES.	RESIDENCES.	
Adams, T. S.,	Clinton,	La.
Anderson, W. H.,	Greenville,	S. C.
Anderson, C. T.,	Marlboro',	"
Anderson, Thomas	Fairfield,	"
Andrews, G. W.,	Edgefield,	"
Austin, J. P.,	Greenville,	"
Bacon, Randolph,	"	"
Blythe, Absalom,	"	"
Bolling, R. T.,	"	"
Bostick, F. J.,	Marion,	"
Bostick, L. R.,	Robertville,	"
Bowers, M. C.,	Barnwell,	"
Boykin, W. F.,	Camden,	"
Boynton, E. S.,	Barnwell,	"
Boynton, M. B.,	"	"
Brooks, Duncan,	Greenville,	"
Brooks, L. W.,	"	"
Brooks, J. L.,	"	"
Brooker, W. T.,	Lexington,	"
Brown, W. R.,	Williamsburg,	"
Brunson, J. W.,	Darlington,	"
Burge, J. C.,	Rutherford,	N. C.
Burn, H. C.,	Darlington,	S. C.
Burn, R. L.,	Greenville,	"
Butler, O. N.,	"	"
Chaplain, J. B.,	"	"
Cooley, J. D.,	Anderson,	"

Crowder, J. A.,	Edgefield,	S. C.
Cuttino, D. S.,	Georgetown,	"
Davenport, T. E.,	Brunswick,	Ga.
David, J. J.,	Greenville,	S. C.
Dean, G. R.,	"	"
Dean, T. C.,	"	"
Dill, Edward,	"	"
Dowling, J. C.,	Barnwell,	"
Dozier, E. C.,	Williamsburg,	"
Dozier, Melville,	"	"
Duncan, J. M.,	Greenville,	"
Duncan, J. H.,	"	"
Earle, Preston,	Anderson,	"
Furman, J. M.,	Greenville,	"
Furman, J. F.,	"	"
Gaines, T. P.,	Greenville,	"
Gaines, M. B.,	"	"
Garvin, R. K.,	Barnwell,	"
Getsinger, J. J.,	"	"
Gold, P. D.,	York,	"
Golden, L.,	Beaufort,	"
Goldsmith, W. H.,	Greenville,	"
Grady, H. C.,	"	"
Gregory, A. R.,	Union,	"
Griffin, B. F.,	Newberry,	"
Guyton, J. W.,	Aiken,	"
Gwin, O. J.,	York,	"
Gwin, R. A.,	"	"
Harley, J. E.,	Barnwell,	"
Harley, L. F.,	"	"
Harris, F. E.,	Centreville,	La.
Harrison, M. B.,	Greenville,	S. C.
Harrod, W. P.,	Barnwell,	"

Hewitt, T. M.,	Darlington,	S. C.
Hill, E. E.,	Greenville,	"
Hightower, B. B.,	Barnwell,	"
Hoffman, J. A.,	Orangeburg,	"
Hogg, R. B.,	Barnwell,	"
Holloway, D. W.,	Edgefield,	"
Hunt, D.,	New River,	Fla.
Irby, P. B.,	Laurens,	S. C.
Kirven, E. H.,	De Soto Parish,	La.
King, W. H.,	Anderson,	S. C.
Knotts, J. V.,	Lexington,	S. C.
Knotts, W. T.,	"	"
Lake, John,	Caddo Parish,	La.
Lanneau, B. M.,	Greenville,	S. C.
Lide, J. E.,	Darlington,	"
Lide, D. F.,	Sumter,	"
Linder, Lee,	Hart County,	Ga.
Lindsey, J. A.,	Pickensville,	Ala.
Livingston, J. H.,	Orangeburg,	S. C.
Martin, B. A.,	Dahlonega,	Ga.
Martin, W. R.,	Charleston,	S. C.
Mathis, J. M.,	Newberry,	"
Mauldin, W. L.,	Greenville,	"
Mays, J. W.,	Edgefield,	"
McBee, V.,	Greenville,	"
McCaskill, N. C.,	Marlboro',	"
McKay, H. A.,	Greenville,	"
Miller, S. E.,	Barnwell,	"
Miller, B. F.,	"	"
Miller, J. A.,	"	"
Miller, J. P.,	Lexington,	"
Mims, S. P.,	Darlington,	"
Moore, L. M.,	Edgefield,	"

Moore, T. L.,	Edgefield,	S. C.
Moss, J. P.,	"	"
Myer, J. H.,	Greenville,	"
Myers, Albert A.,	Marion,	"
Nettles, B. F.,	Darlington,	"
Nettles, S. J.,	"	"
Nicholes, B. B.,	Sumter,	"
Norris, T. P.,	Orangeburg,	"
O'Neill, C. C.,	Greenville,	"
Ouzts, E. M.,	Edgefield,	"
Parrott, A. W.,	Darlington,	"
Parrott, S. D.,	"	"
Payne, J. W.,	Edgefield,	"
Pettigrew, J. E.,	Darlington,	"
Phillips, W. E.,	Greenville,	"
Pringle, S. M.,	Sumter,	"
Rhame, W. F.,	"	"
Riley, G. O.,	Barnwell,	"
Roberts, B. F.,	Palatka,	Fla.
Robison, Hosea E.,	Greenville,	S. C.
Rudd, W. G.,	Caddo Parish,	La.
Scaife, C. T.,	Unionville,	S. C.
Scott, J. H.,	Richland,	"
Scott, J. L.,	"	"
Scott, T. A.,	"	"
Seay, J. R.,	"	"
Smith, T. W.,	Unionville,	"
Smith, J. F.,	Richland,	"
Snider, A. M.,	Orangeburg,	"
Sparks, J. C.,	New Orleans,	La.
Sparks, D. P.,	"	"
Spearman, F. G.,	Newberry,	S. C.
Spearman, Willie R.,	"	"

Sprawls, J. F.,	Williston,	S. C.
Stewart, T. O.,	Ocala,	Fla.
Stiles, C. A.,	Sumter,	S. C.
Swearingen, B. T.,	Edgefield,	"
Thomason, C.,	Greenville,	"
Timmerman, F. L.,	Edgefield,	"
Tindal, H. L.,	Clarendon,	"
Townes, A. S.,	Greenville,	"
Tupper, J.,	Charleston,	"
Twitty, Chas. R.,	Greenville,	"
Vickers, J.,	"	"
Vinson, J.,	Ridgeway,	"
Vogt, M. A.,	Ocala,	Fla.
Wallace, J.,	Beaufort,	S. C.
Wallace, W. W.,	Newberry,	"
Waller, J. L.,	Greenwood,	"
Ware, E. J.,	Greenville,	"
Watkins, Z. B.,	Pickens,	"
Watson, W. C.,	Greenville,	"
Weathersbee, T. F. S.,	Barnwell,	"
Whitmire, W. H.,	Greenville,	"
Whitmire, N. P.,	"	"
Whitmire, K. C.,	Union,	"
Whitmire, W.,	"	"
Williams, J. C.,	Barnwell,	"
Williams, J. P.,	"	"
Willingham, J. C.,	Beaufort,	"
Willingham, J.,	Hamburg,	"

Total number, 155.

ALUMNI.

1855.	David C. Bryan, A. B., M. D.,	Shreveport,	La.
	Rev. J. Boardman Hartwell, A. B.,	Shanghai,	China.
	J. C. P. Jeter, A. B.,	Greenville,	S. C.
	John K. McIver, A. B.,	Society Hill,	"
	Robert H. Pearce, A. B.,	Marion,	"
	Rev. J. G. Williams, A. B.,	Robertville,	"
1856.	J. P. Moore, A. B.,	Edgefield,	"
	R. B. Watson, A. B.,	"	"
	T. G. Pegues, A. B.,	Camden,	"
	James H. Nash, A. B.,	Beaufort,	"
	W. H. Perry, A. B.,	Greenville,	"
1857.	E. H. Graham, A. B.,	Furman University.	
	J. Elvin Knotts, A. B.,	Newberry,	S. C.
	Joseph E. Knotts, A. B.,	Lexington,	"
	Rufus A. Roberts, A. B., M. D.,		Texas.
1858.	James H. Rice, A. B.,	Greenville,	S. C.
	B. O. Duncan, A. B.,		Germany.
	Alex. S. Lide, A. B.,	Darlington,	S. C.
	Robert P. Duncan, A. B.,	Greenville,	"
	James E. Tindal, A. B.,		Germany.
	W. W. Entzminger, A. B.,	Fairfield,	S. C.
	Thos. Duckett, A. B.,	Newberry,	"
1859.	C. M. Furman, A. B.,	Greenville,	"
	I. M. Nicholes, A. B.,	Sumter,	"
	J. W. Walker, A. B.,	Edgefield,	"
	G. P. Anderson, A. B.,	Greenville,	"
	J. M. Lawton, A. B.,	Charleston,	"
	W. R. Barron, A. B.,	Yorkville,	"
	T. H. Pope, A. B.,	Newberry,	"
	J. J. Adams, A. B.,	Clinton,	La.
	D. C. Anderson, A. B.,	Greenville,	S. C.
	J. F. Dargan, A. B.,	Furman University.	
1860.	G. W. Blackburn, A. B.,	Laurens,	S. C.
	T. R. Gaines, A. B.,	Greenville,	"
	E. W. Horne, A. M.,	Edgefield,	"
	B. O. Mauldin, A. M.,	Greenville,	"
	Y. J. Pope, A. B.,	Newberry,	"
	H. F. Scaife, A. B.,	Union,	"
	A. S. Townes, A. B.,	Greenville,	"
	C. A. C. Waller, A. M.,	Greenwood,	"

MATRICULATION.

To be admitted into the University the applicant must give satisfactory evidence of good moral character, and that his attainments are such as to enable him to prosecute with advantage the prescribed course of study. If he has been a member of any other incorporated Institution he must bring with him a Certificate of Dismission.

The applicant must present himself at the opening of the Term, or as soon thereafter as practicable, to the President, and state the course which he desires to pursue. He will then be presented with a copy of the Laws for the government of the University, and will be referred to the respective Professors of the branches of study which he desires to pursue, and by them he will be examined as to his qualification to enter upon the study of those branches. He will also be referred to the Treasurer, with whom he will settle for the expenses of the Term. Upon presenting the Treasurer's receipt to the President, he will be required to sign a declaration that it is his intention strictly to conform to all the Laws of the University until he shall be regularly dismissed.

COURSE OF STUDIES.

PREPARATORY DEPARTMENT.

Applicants for admission into this Department must be prepared to pursue to advantage the Course of Studies following.

This Course is completed in three years.

FIRST YEAR.

Fall Term.—Harkness' Arnold's First Latin Book; Analysis; Composition; Arithmetic and Algebra.

Spring Term.—First Latin Book reviewed; Second Latin Book; Analysis; Composition; Arithmetic and Algebra.

SECOND YEAR.

Fall Term.—Cæsar's Commentaries; Kendrick's Greek Ollendorff; Mythology; Algebra.

Spring Term.—Sallust's Jugurtha; Kendrick's Greek Ollendorff; History of Greece and Rome; Algebra.

THIRD YEAR.

Fall Term.—Virgil's Æneid; Xenophon's Anabasis; Antiquities; Geometry.

Spring Term.—Sallust's Catiline; Anabasis; Antiquities; Geometry.

ORDER OF RECITATIONS.

FIRST YEAR.

Latin,	11 to 12¾
Mathematics,	9½ to 10½
Analysis, three times a week,	8½ to 9½
Composition, twice a week,	8½ to 9½

SECOND YEAR.

Latin,	8½ to 9½
Greek,	12¾ to 1½
Mathematics,	10½ to 11½
Mythology and History,	11½ to 12

THIRD YEAR.

Latin,	9½ to 10½
Greek,	10½ to 11½
Antiquities,	11½ to 12½
Mathematics,	12 to 1½

TEXT BOOKS: Dodd's Arithmetic; Loomis' Algebra and Geometry; Green's Analysis; Quackenbos' Composition; Keightley's Mythology; Bojesen's Grecian and Roman Antiquities; Taylor's Manual of History.

REGULATIONS.

1. The regular classes are formed in this as in the Collegiate Department—at the beginning of the Term—AND IT IS OF THE HIGHEST IMPORTANCE THAT STUDENTS ENTER AT THAT TIME, AND CONTINUE REGULARLY UNTIL THE CLOSE OF THE TERM. Those who enter late will often be required to join a lower Class than they would have done, if they had entered at the opening of the Term, as extra Classes cannot be formed in the midst of the Term for the accommodation of such Students.

2. There will be a Public Examination of the Students in this Department at the close of each Term.

3. At the completion of the course of Preparatory Studies, the Students will be subjected to a Written Examination.

COLLEGIATE DEPARTMENT.

In this Department each Student is allowed entire freedom in the selection of the Schools which he desires to attend. A regular course is, nevertheless, prescribed by the Faculty for all candidates for the Degrees Ph. B., A. B. and A. M. No Student will be received into the Literary or Scientific Schools who has not a practical knowledge of the English language and Composition, as taught in the Preparatory Department, except on condition of his pursuing the English course of that Department in connection with his Collegiate studies.

A Student is not allowed to leave any School which he may have entered, without the consent of the Faculty.

I. School of Ancient Languages and Literature.

To enter this School will be required an accurate knowledge of the Classical Studies pursued in the Preparatory Department, or such knowledge, at least, of the Latin and Greek languages, with Geography, History and Mythology, as, upon examination, shall be found to be equivalent. Where a deficiency, however, can be made up by reviewing a study in the Preparatory Department, the applicant will be admitted upon this condition.

In this School there are three classes: Junior, Intermediate and Senior.

JUNIOR CLASS.

Fall Term.—*In Latin:* Syntax of Andrews' and Stoddard's Latin Grammar, compared with the Syntax of Kuhner's and Zumpt's Latin Grammars; in pursuing which, not the order of these authors, in their arrangement of topics, is observed, but the analytical method of Harkness in his Second Latin Book—that is, the order of analysis of the Latin sentence. According to this method *a complete course of Latin syntax is developed* during the scholastic year.

Arnold's Latin Prose Composition begun; Latin Prosody.

Along with these studies, portions of the following Latin works are read: Cicero's Orations and Livy.

Bojesen's Roman Antiquities, accompanied with a brief view of Roman History.

In Greek: Kuhner's Larger Grammar—Syntax of the simple sentence.

As in Latin, so here, a complete course of Syntax is developed during the scholastic year; in accomplishing which, a close comparison is made between the Syntax of the two languages.

Portions of the following Greek books are read: Xenophon's Memorabilia and Herodotus.

Bojesen's Grecian Antiquities, accompanied with a brief view of Grecian History.

Brown's Grecian Literature, through the accounts of Æschylus, Sophocles and Euripides.

Spring Term.—*In Latin:* Syntactieal Exercises of the Fall Term continued and completed; Arnold's Latin Prose Composition continued; selections from the Odes and Epodes of Horace are read.

Bojesen's Roman Antiquities, with a brief view of Roman History.

In Greek: Kuhner's Larger Grammar; Syntax of the Compound Sentenee; Arnold's Greek Prose Composition begun; Greek Prosody, with the reading of a few books of Homer's Iliad.

Browne's Greeian Literature completed.

INTERMEDIATE CLASS.

Fall Term.—*In Latin:* Arnold's Latin Prose Composition completed; Latin Prosody reviewed, with Lectures upon the Prineiples and Doctrines of Etymology, and upon the Order and Structure of the Language.

With these Studies, portions of the following Latin works are read: Cicero de Oratore and Tacitus.

Browne's Roman Literature, through the account of Virgil.

In Greek: Arnold's Greek Prose Composition completed; Greek Prosody reviewed; with Lectures upon the Etymology, Order and Structure of the Language, as upon the Latin; Demosthenes on the Crown.

Spring Term.—*In Latin:* Leetures upon the Philosophy of the Language continued, with exereises in translating Greek into Latin.

Satires and Epistles of Horace.

Browne's Roman Literature eompleted.

In Greek: Arnold's Seeond Greek Prose Composition (on the particles) begun; accompanied with the study of Dr. Harrison's recent work on the Greek particles, and (continued) Lectures on the Philosophy of the Language; Thucydides.

SENIOR CLASS.

Fall Term.—*In Latin:* Horace's Art of Poetry; to be accompanied by a weekly Composition in Latin on themes assigned.

In Greek: The Antigone or Œdipus Tyrannus of Sophocles, with an Analysis of the various kinds of Greek verse; Arnold's Second Greek Prose Composition (on the particles) completed.

Keightley's larger work on the Mythology of Ancient Greece and Italy begun.

Spring Term.—*In Latin:* Selections from Juvenal and Persius, and also from Cicero's Ethical Works; with exercises in Latin Composition, and in reading and analyzing Latin at sight.

In Greek: The Antigone or Œdipus Tyrannus of Sophocles completed, with weekly exercises in Greek Composition on themes assigned, and also in translating Greek into Latin and Latin into Greek.

Keightley's larger work on the Mythology of Ancient Greece and Italy completed; also, Henry's History of Philosophy, through the second period and a portion of the third.

With the reading of the various Latin and Greek authors above specified, the Ollendorff method of instruction, which requires an extensive memorizing of words, phrases and idiomatic expressions, is employed more or less throughout the course, including the course in the Preparatory Department, where the foundation for it is laid. To this method of instruction are united, as already intimated, constant analyses and comparisons of words, phrases, idioms and whole sentences in their structure, so as to develop, as far as possible, the different genius and spirit of the two languages.

The objects aimed at throughout the course are principally these: To educate the mind by developing the power of independent thought and just criticism; to lay the foundation of thorough scholarship in our own language;

and to impart such a knowledge of the Latin and Greek, that the Student may be enabled afterwards to pursue the study of Latin and Greek authors with profit and pleasure, so that the refining and elevating influences of the literature of these incomparable languages may not end with college life, but may continue and increase with the increase of years.

The above Course is required for the Degree of "Proficient" in this School.

For the Degree of "Master" in this School, there is required (in addition to the preceding Course) one year in a Normal Class, in the more thorough prosecution of the studies of the School.

II. School of Mathematics and Mechanical Philosophy.

To enter this School there will be required a thorough knowledge of Arithmetic, of Algebra, through equations of the second degree, and three books of Geometry.

JUNIOR CLASS.

Fall Term. — Synthetic Geometry, plane and solid; geometrical Analysis and construction of problems.

Spring Term. — Plane and Spherical Trigonometry: Representation and measures of angles; theory of sines, cosines, tangents, cotangents, secants, cosecants and versed sines of angles; establishment of a table of general formulæ of trigonometrical functions for future reference; construction of numerical tables of trigonometrical functions; solutions of triangles, right and oblique; mensuration; surveying, geodesy and navigation.

The study of the Ancient Geometry—that most excellent instrument of intellectual culture—is here prosecuted to a considerable extent. The logical and inventive powers of the Student are severely tasked by the daily

analysis of the demonstrations of the text, but more particularly by frequent exercises in EXTRA theorems and in the geometrical analysis and construction of problems, of which original solutions and demonstrations are presented by him, either in writing or orally at the board.

The studies of this year are well calculated to call forth and to invigorate the latent faculties of the mind, and to prepare the Student either for the more abstruse and difficult studies of his University career, or for any of the active pursuits of life.

INTERMEDIATE CLASS.

FALL TERM.—Descriptive Geometry: Graphical problems of the right line and plane; surfaces of single curvature, their tangent and normal planes; intersections of surfaces, and curves of double curvature; surfaces of double curvature, and ruled surfaces.

Principles of linear perspective; isometrical perspective, and dialling.

SPRING TERM.—General or Symbolical Algebra, comprising: Demonstrations of general theorems; contracted method of division and of finding the highest common divisor of polynominals; theory of indices and radicals; discussion of equations; mathematical infinity, infinitesimals and indeterminate quantities; summation and interpolation of series; theory of logarithms; binominal, multinominal and exponential theorems; theory of probabilities; general theory and solution of equations of the higher orders; symbolical representation and properties of numbers; different systems of notation, etc., constituting the philosophy of Arithmetic.

The more difficult subjects in the theory of Algebra and Arithmetic have been postponed to this part of the Course, in order that the Student may have the advantage of maturer years and previous culture in investigating subjects of so much importance, either in themselves considered, or in reference to the higher analysis of the succeeding year.

SENIOR CLASS.

FALL TERM.—Analytical Geometry: Of points and right lines in a plane; points and lines in space; transformation of co-ordinates; equations of the plane, cylinder and cone; sections of the cylinder and cone; properties of the parabola, ellipse and hyperbola; discussion of the general equation of the second degree between two variables; problems of geometrical loci; surfaces of the second order, their diametral, tangent and normal planes.

SPRING TERM.—Differential Calculus: Rules for the differentiation of algebraic, exponential, logarithmic and circular functions; inverse functions; successive differentiation; Maclaurin's and Taylor's Theorems; functions of two or more variables; vanishing fractions, problems of maxima and minima.

Integral Calculus: Establishment of a table of general formulæ for the integration of algebraic functions of a single variable; rational fractions; integration by parts, and by rationalization; formulæ for successive reduction; integration of circular functions; integration of differential equations.

FOURTH YEAR.

FALL TERM.—Application of Differential Calculus to Geometry: Tangents and normals to curves; rectilinear and curvilinear asymptotes; singular points of curves; radius of curvature and evolutes; tracing of curves and discussion of their equations, referred to rectangular or polar co-ordinates.

Application of Integral Calculus: (*a*) To Geometry, rectification of curves, quadrature of surfaces, plane and curved, cubature of volumes; (*b*) To Mechanics, centre of gravity of bodies, attractions, etc.

The Studies of this School are pursued with the use of approved text books; nevertheless, many subjects are treated in a manner different from that of the text, and

many subjects not usually found in text books are introdueed for the exercise of the Student.

TEXT BOOKS AND BOOKS OF REFERENCE. — Junior Class: Loomis' Geometry and Trigonometry; Pott's Euclid; Colenso's Problems; Leslie's Geometrical Analysis; Chauvenet's Trigonometry.

INTERMEDIATE CLASS: Davies' Descriptive Geometry; Olivier's Geometrie Descriptive; Hackley's Algebra; Peacock's Arithmetical and Symbolical Algebra, two volumes; Barlow's Theory of Numbers; Young's Theory and Solution of Equations of Higher Orders; Perspective (Lectures).

SENIOR CLASS: Church's Analytical Geometry and Calculus; Salmon's Conic Sections; Gregory's Solid Geometry, or Hymer's Geometry of three Dimensions; Price's Infinitesimal Calculus, three volumes; Gregory's Examples of the Differential and Integral Calculus; History and Philosophy of Mathematics, Compte, Davies', and Lectures.

MIXED MATHEMATICS.—To enter this Class the Student must be a "Proficient" in Mathematics, and "Master of Natural Philosophy and Descriptive Astronomy."

The Course comprises Analytical Investigations of the Laws of Mechanics, with special reference to Physical Astronomy.

TEXT BOOKS: Bartlett's Analytical Mechanics, and Price's Calculus, vol. 3.

The preceding Course is required for the Degree of "Master of Mathematics and Mechanical Philosophy."

III. SCHOOL OF NATURAL PHILOSOPHY AND ASTRONOMY.

A ready knowledge of Arithmetical Algebra, Plane Geometry, Solid Geometry, and Plane Trigonometry, is an indispensable requisite to entrance in this School.

JUNIOR CLASS.

SPRING TERM.—General Physics: 1. The primary and secondary properties of matter, forces governing matter; moleeular theory. Motion of bodies; equilibrium of forces, solids, fluids, gases, respectively, at rest or in motion; whenee, statics, hydrostatics, acrostatics, and dynamics, hydrodynamies, ærodynamics.

2. Acoustics: Propagation and velocity of sound through

various media, reflection, musical sounds, vibration of bars and plates, voice, hearing, etc.

3. Optics: Reflection, refraction, chromatics, polarization, vision, optical instruments, photography, etc.

4. Thermotics: Sources and effects of heat, expansion, liquefaction, vaporization, steam engine, radiation, reflection, absorption, conduction, specific heat, theories, etc.

5. Electricity: Frictional and voltaic electricity, magnetism, electro-magnetism, magno-electricity, and electro-physiology.

6. Meteorology: General phenomena of the atmosphere, its relation to heat and moisture, phenomena of winds and storms, optical and electrical phenomena, meteorolites, etc.

Text Books and Books of Reference: Muller's Physics and Meteorology; Lardner's Natural Philosophy; Young's Natural Philosophy; Newton's Optics; Noad's Electricity.

INTERMEDIATE CLASS.

Fall Term.—Mechanics of Solids: Composition and resolution of forces, work of forces, methods of applying force. Stability of structures, centre of gravity, centro-baryc theory. Motion of bodies after impact, motion of projectiles, of bodies on an inclined plane; rotating bodies, revolving bodies. Simple pendulum, ballistic pendulum; centres of oscillation and percussion.

Spring Term.—Mechanics of Fluids: Pressure of fluids, vertical and lateral; transmission of pressure, centre of pressure; floating bodies, specific gravity; efflux of fluids, work of fluids, resistance and percussion of fluids; hydraulic engines; pressure of the atmosphere; efflux of steam, of gases; elasticity and expansion of gases, Mariotte's law.

Text Books and Books of Reference: Smith's Mechanics; Zantlett's Mechanics; Boucherlat's Mechanics; Weisbach's Mechanics; Tate's Mechanical Philosophy.

SENIOR CLASS.

Fall and Spring Terms.—Plane Astronomy: General phenomena of the heavens; motion, masses and distances of the heavenly bodies; methods of observation; history of the planets and asteroids; classification of fixed stars, of binary systems; theory of nebulæ, of comets, of the zodiacal light.

Physical Astronomy: Theory of universal gravitation; Kepler's laws, application of the principles of mechanics; computation of solar and lunar eclipses, occultations, etc.

Text Books and Books of Reference: Gummere; Norton; Lardner; Herschel.

IV. School of Chemistry and Natural History.

This School is attended by the Intermediate Classes in the Schools of Languages and Mathematics, and by the Junior Class in the School of Natural Philosophy.

Fall Term.—The branches in the department of Science forming this School will be studied systematically—their mastery being facilitated, as far as possible, by instructive experiment, while the course of Lectures, affording opportunity for the development of important points, will consist of a comprehensive outline of the constitution, nature and relation of material bodies—embracing the chemical phenomena of light, heat and electricity; the general physical and chemical properties of ponderable bodies, atomic theory and chemical nomenclature; special history of the non-metallic and metallic elements, and their compounds, binary, ternary and quaternary; general principles of the constitution of organic bodies; vegetable and animal chemistry; the principles of chemical analysis, and the application of chemistry to agriculture and the arts.

Text Books: Silliman's Chemistry; Stockhardt's Chemistry; Loomis' Geology; Agassiz' and Gould's Zoology; Gray's Botany.

The Apparatus connected with the Schools of Natural Philosophy and Chemistry will afford every facility for a full experimental demonstration of the subjects included in the Course.

V. School of Logic, Rhetoric and the Evidences of Christianity.

JUNIOR CLASS.

In the Junior Class of this School is pursued the study of Rhetoric as it unfolds the general principles and rules of Composition. An acquaintance with the Grammar of the English Language is taken for granted, but reference is had to violations of grammar most likely to occur. The rules for Punctuation are reduced to a more complete system than in grammatical treatises, and the Figures of Grammar more particularly explained. The nature and use of Rhetorical Figures; the different varieties of Style —upon what dependent—to what occasions appropriate; Criticism; Versification. These and kindred topics are studied, along with practical exercises in Composing.

INTERMEDIATE CLASS.

In this Class Logic is taught as the science and the art of reasoning. The study embraces the true theory of reasoning as resting upon a single principle; the capability of stating every valid argument in syllogistic form; analysis of syllogism; its constituent elements combined according to various laws; mood and figure; reduction of categoricals; modals and hypotheticals (conditionals and disjunctives); the dilemma; reduction of hypotheticals; an examination and classification of fallacies, or the various modes in which the particular laws of syllogism, and through them the general principles of reasoning are violated in *apparent* arguments, or arguments in which

ambiguity of terms leads to unsound conclusions, or an unduly assumed premise is used, or an irrelevant conclusion substituted for the proper one.

The study of Rhetoric is resumed. It is here regarded with special reference to discourse intended for conviction and persuasion. The different kinds of argument are explained, and the most effective order of arrangement considered. The influencing of the will; the feelings proper to be addressed; the means of exciting them or of removing their opposites; and the qualities of style, as appropriate to these ends, are investigated.

Regular exercises in Public Speaking are had, with special reference to the cultivation of a *natural* manner, and constant practice in Composition.

SENIOR CLASS.

The Evidences of Christianity are studied in a general and popular view, as embracing the authenticity, credibility, Divine authority and inspiration of the Scriptures, and the general topics pertaining to the internal evidences. Objections to revealed religion shown to be untenable.

TEXT BOOKS IN THIS SCHOOL: Whately's Logic; Whately's Rhetoric; Wilson's Evidences; Butler's Analogy. REFERENCES: Blair; Campbell's Philosophy of Rhetoric; Carson.

VI. SCHOOL OF INTELLECTUAL AND MORAL PHILOSOPHY.

INTELLECTUAL PHILOSOPHY.—The history of opinions; analysis of the intellectual powers; characteristic differences; laws of operation.

MORAL PHILOSOPHY. — Different ethical systems considered as to their fundamental theories; true standard of morals, as inherent in a single principle, allowing of a direct reference to it in every case of fulfilment or infraction of the more general or the more minute moral laws; classification of human duties.

TEXT BOOKS: Haven's Elements of Intellectual Philosophy, and Dagg's Elements of Moral Science. REFERENCES: Locke, Reid, Stewart, Brown, Cousin, Sir W. Hamilton, Hickok.

POLITICAL SCIENCE.

Under this head will be taught Political Economy, Elements of the Common Law and of the Law of Nations, and the Constitution of the United States.

Text Books and Books of Reference: Wayland's Political Economy; Smith's Elements of the Laws; Vattel's Laws of Nations; Whewell's Civil Polity; Sheppard's Constitutional Text Book; Story's Commentaries on the Constitution; DeLolme on the English Constitution; and Calhoun on Government.

MODERN LANGUAGES.

Instruction will be given in Modern Languages by a competent master, appointed by the Faculty. He will receive an extra tuition fee, which will depend upon the size of his classes.

REMARKS.

The Schools are so arranged as to enable the Student to pursue, to the best advantage, any particular Course which he may select, and to whatever extent he may desire.

No limit of time is fixed for completing a course of study. The time allotted to each Course depends upon the nature and extent of the Course, and the diligence and success with which it is pursued.

In each of the Schools instruction is communicated by Lectures, with or without the use of Text Books, according to the nature of the science and the attainments of the Class.

Young men preparing to become Teachers will here meet with all the advantages of a Normal School. Those desiring to prosecute particular branches of study to a greater extent than that prescribed in the Regular Course, will meet with every encouragement, and will receive all the instruction they need.

HOURS OF RECITATION.

The following Schedule will exhibit the regular Course for the Degrees A. B. and A. M.

FIRST YEAR.

Latin and Greek,	5	times a week,	$8\frac{1}{2}$	to	10
Rhetoric and Composition,	2	" "	10	to	$11\frac{1}{2}$
Physiology (Spring Term),	3	" "	10	to	$11\frac{1}{2}$
Elements of Law (Fall Term),	3	" "	10	to	$11\frac{1}{2}$
Mathematics,	5	" "	$11\frac{1}{2}$	to	$12\frac{1}{2}$

SECOND YEAR.

Mathematics,	2	times a week,	$8\frac{1}{2}$	to	10
Evidences of Christianity (Fall Term),	3	" "	$8\frac{1}{2}$	to	10
Political Economy (Spring Term),	3	" "	$8\frac{1}{2}$	to	10
Latin and Greek,	5	" "	10	to	$11\frac{1}{2}$
Chemistry (Fall Term),	5	" "	$11\frac{1}{2}$	to	1
Natural Philosophy (Spring Term),	5	" "	$11\frac{1}{2}$	to	1

THIRD YEAR.

Mathematics,	3	times a week,	$8\frac{1}{2}$	to	10
Mechanics,	2	" "	$8\frac{1}{2}$	to	10
Logic and Rhetoric,	3	" "	10	to	$11\frac{1}{2}$
Modern Languages,	2	" "	10	to	$11\frac{1}{2}$
Latin and Greek,	5	" "	$11\frac{1}{2}$	to	1

FOURTH YEAR.

Butler's Analogy,	2	times a week,	$8\frac{1}{2}$	to	10
Astronomy,	3	" "	$8\frac{1}{2}$	to	10
Mathematics (Fall Term),	3	" "	10	to	$11\frac{1}{2}$
Constitutional Law (Spring Term),	5	" "	10	to	$11\frac{1}{2}$
Intellectual and Moral Philosophy,	5	" "	$11\frac{1}{2}$	to	1

EXAMINATIONS.

The Examinations are of two kinds, to wit: I. Daily Examinations of the Classes. II. Written Examinations for Honors.

I. DAILY EXAMINATIONS.

The Daily Examinations are searching and thorough, and the success of the Student is noted by the Professor, according to a certain numerical rule, and a report is sent monthly to the parent or guardian of the Student. This record will be preserved in the archives of the University, and it may, to some extent, determine the award of Honors.

II. WRITTEN EXAMINATIONS.

1. Each Class is subjected to a Written Examination, which will commence as many days previous to the close of the Term as the Faculty may deem necessary to complete the Examinations.

2. The President appoints, for the Examination of each School, a Committee, consisting of the Professor of that School and two other Professors, who, together with a Committee appointed by the Board of Trustees, conduct the Examination.

3. The Professor of the School prepares a series of questions upon the studies which have been pursued during the Term immediately preceding; and to each of these he affixes a numerical value according to its relative difficulty. The list thus prepared is submitted to the Committee for their approval.

4. At the time appointed, the Class take their places in the Lecture Room, and in the presence of the Committee the questions are then, for the first time, presented to the Class; and at least two members of the Committee are present during the whole of the Examination.

5. Each Student is required to prepare, in writing, answers to all the questions, so far as he is able, and, at the expiration of the time allotted to the Examination, to hand in his answers, with a certificate that he has received no assistance from any source, except such as it may have been necessary for a Professor to give, in the presence of the Committee.

6. No conversation whatever is allowed between Students during this Examination; and a deduction will be made from the standing of any Student who shall violate this rule.

7. The Professor examines the answers, notes the errors, and affixes to each answer a numerical value not exceeding the value affixed to the corresponding question. A report of the success of each Student, together with his answers, is then submitted to the Committee for their approval.

8. The Students are then arranged into four separate divisions, according to the merit of their Examinations, as determined by the following method: The numerical values attached to each of the questions are added together, and also the values of the answers of each Student. If the latter number amount to three-fourths of the former, the Student is ranked in the first division; if it be less than three-fourths, and as much as one-half, in the second; if it be less than one-half, and as much as one-fourth, in the third; if less than one-fourth, in the fourth division.

9. The Faculty are authorized to confer on those who attain to the first division at this Examinaiion a Certificate of Distinction.

10. If a Student shall rank in the fourth division in several or all of his studies, he will be liable to any of the minor punishments of the University.

11. A report of the sueeess of each Student at these Examinations will be sent to his parent or guardian; and any one who shall unnecessarily absent himself, shall not be entitled to an honorable dismission.

DEGREES AND DISTINCTIONS.

The Distinctions and Degrees in course of this University, are:

1. A Certificate of Distinction in each Class, conferred upon those who attain the first division of the Written Examination.

2. A Degree of PROFICIENT in each School, conferred upon such Students as shall have merited a Certificate of Distinction in all the studies of that School which have been specified as required for this Degree.

3. The Degree of BACHELOR OF PHILOSOPHY, conferred upon such as shall have received the degree of Proficient in all the Schools of the University except that of Ancient Languages, and shall have studied the French or German Language two years. But the successful prosecution of the Ancient Languages two years, in the Collegiate Department, will be regarded as equivalent to two years in any other study.

4. The Degree of GRADUATE, with the title of Bachelor of Arts, conferred upon such as shall have received the Degree of Proficient in at least four Schools, and shall have ranked as high as the second division at all of the Written Examinations of the remaining two Schools; or upon such as shall have received the Degree of Proficient in five Schools, and shall have diligently prosecuted the studies of the remaining School two years.

5. The Degree of MASTER OF ARTS, conferred upon such as shall have received the Degree of Proficient in all of the Schools, including the Course of Political Science and one Modern Language.

Note.—A Student thoroughly prepared for the Junior Class may complete the full Course for A. M. in four years, by employing a part of his Vacations in the study of a Modern Language.

RULES OF DISCIPLINE.

1. No applicant shall be received into the University who has been suspended or expelled from another College, except on satisfactory evidences of reformation.

2. At the request of the parent or guardian of a Student, he will receive an honorable dismission, provided his deportment shall have been such as to entitle him thereto.

3. Any Student desiring leave of absence before the close of term time, must present an application in writing from his parent or guardian, stating the period for which such leave is asked. Any Student exceeding the time granted shall be considered as absent without leave, and he will be dealt with accordingly.

4. A Student who may absent himself from the University without the consent of the Faculty, shall be suspended.

5. Leave of absence shall not be granted during the four weeks immediately preceding the Written and Public Examinations, except in cases of absolute necessity.

6. Strict attention to study, and punctuality in attendance on Lectures, Recitations and other duties, will be made the CONDITION of every Student's continuance at the University.

7. Students are required quietly to take their places in the Lecture Room at the appointed hours; to attend closely to the exercise of the hour, not whispering or communicating in any manner with each other; to be orderly and decorous during their attendance, and, when the exercise is over, to retire in a quiet and respectful manner. Each Instructor, in calling the roll, is required to mention the absences against any Students who are then present, and if no excuse is given by such Students before they leave the room, it is regarded a case of wilful absence, to be reported to the Faculty. If a Student is reported for such absences three times in one month, he is made liable to suspension.

8. Students are required to prepare, in time for the reviews, all lessons gone over by the Class in their absence.

9. Students applying for admission after the opening of the Term will be subjected to an examination upon the portions of studies already completed by the Classes which they propose to enter; and, upon failing to stand, will be positively prohibited from joining them. Parents

and guardians are particularly requested to note this regulation, and have their sons or wards appear promptly at the opening of the Term.

10. Students are required, at appointed hours, to take their seats in the Chapel, for attendance on public worship; to rise to their feet and stand during the prayer, and to abstain from all irreverent behavior during such attendance.

11. Students are required to treat each other, and all persons, with respect and courtesy.

12. A Student who shall spit on the floor, walls, etc., or who shall cut, mark or otherwise injure or deface the buildings, furniture or appurtenances, books, his own or others, shall make good all damages, and may be otherwise punished, according to the nature and degree of his offence. THE USE OF TOBACCO IN ANY PART OF THE UNIVERSITY BUILDINGS IS STRICTLY PROHIBITED.

13. Students are required to attend public worship on Sunday. A Student who shall in any wise behave irreverently while attending such worship, shall be suspended or otherwise punished, according to his offence.

14. No Student shall contract any debt whatever, without permission from his parent or guardian, or from the President. A full and accurate statement, also, of all debts contracted under such permission shall be made by each Student to the President monthly, to be entered in the monthly report to his parent or guardian; and any Student who shall make a false statement of said debts, or shall fail to make his report, shall be liable to suspension, or shall be otherwise severely punished.

15. A Student who shall use any spirituous or intoxicating liquor, or have it in his room, or visit any bar-room or other place where it is sold and drunk, shall be liable to be suspended.

16. A Student who shall offer or accept a challenge to fight, or in any way aid, abet or promote a duel, or upbraid another for declining to fight, shall be expelled.

17. All Students are prohibited from carrying, or having in their possession, deadly weapons; and any one drawing or using such weapon against another, shall be expelled.

18. All Students are prohibited from entering into combinations, under whatever pretext, for purposes of disturbance. Any one engaged in riotous conduct, or becoming a party to an agreement to hold no intercourse with a fellow Student, or to do any act to the prejudice of good order and gentlemanly bearing, shall be suspended or

expelled, according to the aggravation of the offence. Propriety of behavior is enjoined on Students AT ALL times and places.

19. No Student shall visit any billiard room or kindred place of amusement, or in any manner wager money or other thing.

20. The use of profane or corrupt language, all offences against good morals, and all irregularities or neglects, to the prejudice of good order and gentlemanly bearing, though not herein enumerated, will be taken cognizance of according to the nature and degree of the offence.

21. Students who are preparing for the Ministry are not allowed to make any appointments to preach during Term time, or to fulfil appointments made by others for them, without special permission from the President.

22. All excuses must be made in writing to the President.

23. All offences are to be laid before the Faculty, whose judgments will be formed after careful investigation, and shall be FINAL.

REGULATIONS IN REGARD TO DEMERITS.

1. Each unexcused absence shall receive one Demerit.
   Each instance of infraction of a published Rule, the penalty for which is not explicitly stated, five Demerits.
   Noise within or near the College building, one to five Demerits.
   For each day's delay, after the 3d of the month, in handing in Report of Indebtedness, one Demerit.
2. Any Student receiving ten Demerits in the course of a month, shall be reprimanded by the Faculty; and receiving the same number during any succeeding month of the year, shall be liable to suspension.
3. Any Student receiving twenty-five Demerits during one Term, shall be liable to suspension.
4. The Students shall have access to the Record Book of Demerit marks.

TERMS, EXPENSES, ETC.

TERMS.

The Scholastic Year is divided into two Terms. The Fall Term begins immediately after Commencement, and continues to the 20th December—nineteen weeks. The Spring Term begins the 1st Wednesday in March, and continuos to the 4th of July—nineteen weeks.

EXPENSES.

Tuition in English Course, Preparatory Department, per Term.....					$16 00
" " Classical Course,	"	"	"	"	21 00
" " Collegiate	"	"	"	"	21 00
Incidental Expenses, either Department,			"	"	4 00

Tho "Incidental Expenses" include the expenses for Commencement, publishing Catalogues and Monthly Reports, fuel for recitation rooms, etc.

An initiation fee of five dollars is also required of every new Student.

The expenses of each Term must be paid in advance, and no deduction will be made for those who enter after the beginning of the Term.

Boarding can be obtained in private families for $12.50 per month, exclusive of washing. Students are not allowed to board at a public hotel.

☞ To avoid extravagance in the expenditures of the Students, parents and guardians residing at a distance from the University are requested to appoint some member of the Faculty, or some citizen of Greenville, a patron of their sons or wards, and to deposit with him all funds for defraying the expenses of the year, with special instruction in reference to its disbursement. Experience has shown that one of the greatest obstacles to the formation of moral and studious habits is the unrestrained use of money.

MONTHLY REPORT.

The Monthly Report to be sent to the parent or guardian of the Student, besides the estimate of his success in his studies, as already indicated, will contain an account of his general deportment and monthly expenditures. See Rules of Discipline, No. 14.

COMMENCEMENT AND VACATION.

The Commencement will take place on Wednesday succeeding the last Saturday in July.

There will be a Vacation of four weeks preceding Commencement, and one from the 20th December to the first Wednesday in March.

APPENDIX.

Societies for Intellectual and Moral Improvement.

There are two Literary Societies in the University, the *Adelphian* and the *Philosophian*, which hold weekly meetings in their respective Halls. They have already collected many valuable books, as a nucleus for their Libraries, and they will be glad to receive donations of books from any of their friends.

The Adelphian Society has an Anniversary Address on the evening of the 15th of May, from one of their number; and the Philosophian, one on the 28th of the same month. The Annual Oration before the joint Societies, by some gentleman of their own selection, is on the night of Commencement Day.

The *Franklin Reading Society* have a room fitted up and furnished with papers and magazines from all parts of the country. It is open to its members at all hours of the day.

For their moral improvement, the young men have, in addition to their weekly prayer meetings, a *Missionary Society*, which meets monthly for prayer and the reading of addresses or of missionary intelligence.

An Annual Sermon is delivered before their Society, by some gentleman of their own selection, on the night preceding Commencement Day.